

## **The AMIGA Modeling System Scenario Analysis**

### **Oil and Gas Availability:**

- Abundant oil and gas resources,
- Higher oil and gas prices.

### **Technology Performance, Cost, and Early Success:**

- Hybrid vehicles,
- Stationary fuel cell technology,
- Fuel cell vehicles,
- Wind generation,
- Hydrogen production via electrolysis,
- Interconnection standards and reduced transmission grid barriers to distributed and renewable generation,
- Advanced building technologies,
- Carbon capture and sequestration,
- Nuclear thermal hydrogen production.

### **Environmental Scenarios:**

- Severe tightening of the petroleum fuel sulfur standard,
- Future of the existing fleet of coal-fired power plants,
- Institution building and technology development to address long-run climate change.
- Abrupt climate change responses.

**Macroeconomic growth determinants:**

- Productivity growth,
- Population growth,
- Foreign sector developments,